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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,512	10/01/2003	Blair Birmingham	00100.03.0004	8531

29153 7590 01/24/2008
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EXAMINER

RAHMAN, FAHMIDA

ART UNIT	PAPER NUMBER
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2116

MAIL DATE	DELIVERY MODE
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01/24/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/676,512

Applicant(s)

BIRMINGHAM, BLAIR

Examiner

Fahmida Rahman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-10, 12-22, 24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-10, 12-22 and 24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This action is in response to communications filed on 12/4/07.
2. Claims 10, 16, 21 have been amended, claims 7, 11 and 23 have been canceled and no new claims have been added. Thus, claims 1-6, 8-10, 12-22, 24 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 2, 3, 5, 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al (US Patent 6802010).

For claim 1, Kim et al teach the following limitations:

A remote connector (380 in Fig 8 can connect to remote device 400) comprising:

- **a power supply input receiver operably coupleable to a power source and being capable of receiving a power supply for powering the remote connector (380 comprises a microcontroller that requires power input to operate);**

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- **a plurality of ports** (ports connecting to 385, 345 and wireless) **each of the plurality of ports capable of receiving a peripheral component** (GPIO, Keyboard, 400' are peripheral components that communicate with CPU 325) **for communication with a remote processing unit** (325 is remote with respect to 400);
- **a wireless receiver capable of wirelessly receiving a wireless command** (382) **from a remote device** (400);
- **and a transmitter** (384) **capable of generating a wake-up command in response to the wireless command** (lines 15-25 of column 8) **and capable of providing the wake-up command through an input/output interface to the processing unit operably coupleable to the remote connector** (lines 13-31 of column 8).

For claim 2, Fig 5 shows the bus.

For claim 3, note lines 14-15 of column 8.

For claim 5, transmission is RF (line 32 of column 2).

For claim 8, command includes wake-up request.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 4, 6, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (US Patent 6802010).

For claims 4, 6, 9, Kim et al do not explicitly mention about antenna, USB and media display command. Examiner takes an official notice that these components are well known in the art. One ordinary skill in the art would be motivated to have such components within the system for their associated advantage that is also well known in the art.

5. Claims 10, 12-22, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al (US Patent 6802010), in view of Leman et al (US Patent 7005966).

For claim 10, Kim et al teach the following limitations:

A remote connection system comprising: a remote connector including (380 in Fig 8):

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- **a power supply input receiver operably coupled to a power source and being capable of receiving a power supply for powering the remote connector** (380 comprises a microcontroller that requires power input to operate);
- **a plurality of ports** (ports connecting to 385, 345 and wireless signal), **each of the plurality of ports capable of receiving a peripheral component for communication with a remote processing unit** (GPIO, Keyboard and remote 400' are peripheral components that communicate with CPU 325);
- **a wireless receiver capable of wirelessly receiving a wireless command** (382);
- **and a transmitter (384) capable of generating a wake-up command in response to the wireless command** (lines 15-25 of column 8)
- **an input/output port coupled to the processing unit for providing the wake-up command to the processing unit** (lines 13-31 of column 8)
- **a remote device capable of generating the wireless command and providing the wireless command to the remote connector (400).**

Kim does not mention about two power sources. Leman et al mentions the power sources (66 and 72). 66 is used to provide power to all of the components of the computer, while 72 provides power to 74. One ordinary skill would be motivated to use two separate power sources for powering processor and the connector as it provides continuous operation of remote connector while computer performs power saving operation (lines 15-20 of column 4).

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For claims 12, 19, 20, Kim et al do not explicitly mention about antenna, USB and media display command. Examiner takes an official notice that these components are well known in the art. One ordinary skill in the art would be motivated to have such components within the system for their associated advantage that is also well known in the art.

For claim 13, note line 32 of column 2.

For claim 14, the request is a wakeup request.

For claim 15, Fig 5 shows the bus. Note lines 14-15 of column 8 for suspend mode detector.

For claim 16, Kim et al teach the following limitations:

A method for remote connecting (abstract) comprising:

- **receiving a power supply to power a remote connector** (380 comprises a microcontroller that requires power input to operate);
- **providing, by the remote connector, plurality of ports** (ports connecting to 385, 345 and wireless signal), **each capable of receiving a peripheral connector for communicating with a remote processing system** (GPIO,

Keyboard and remote 400' are peripheral components that communicate with CPU 325);

- **wirelessly receiving a wireless command from a remote device (382 from 400)**
- **generating a wake-up command in response to the wireless command (lines 15-25 of column 8)**
- **and transmitting the wake-up command to the processing coupled to the remote connector across a bus (lines 13-31 of column 8).**

Kim does not mention about two power sources. Leman et al mentions the power sources (66 and 72). 66 is used to provide power to all of the components of the computer, while 72 provides power to 74. One ordinary skill would be motivated to use two separate power sources for powering processor and the connector as it provides continuous operation of remote connector while computer performs power saving operation (lines 15-20 of column 4).

For claim 17, note S210, S225 and S230 in Fig 9.

For claim 18, wireless command is a wakeup request.

For claim 21, Kim et al teach the following limitations:

A remote connector (380 in Fig 8) comprising:

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- **a power supply input receiver operably coupleable to a power source and being capable of receiving a power supply for powering the remote connector device (380 comprises a microcontroller that requires power input to operate)**
- **a plurality of ports (ports connecting to 385, 345 and wireless signal) each of the plurality of ports capable of receiving a peripheral component for communication with a remote processing unit (GPIO, Keyboard and remote 400' are peripheral components that communicate with CPU 325);**
- **a RF receiver (382) capable of wirelessly receiving a wireless command from a remote device (400), wherein the wireless command is transmitted using a radio frequency transmission (line 32 of column 2), wherein the wireless command includes a wake-up request (lines 55-57 of column 4);**
- **and a transmitter (384) capable of generating a wake-up command (lines 15-25 of column 8) in response to the wireless command;**
- **a bus (370, 375) capable of operably coupled to a processing unit (325), such that the wake-up command may be provided to the processing unit through the output bus (lines 35-45 of column 6).**
- **and a suspend mode detector capable of receiving a suspend mode indicator from the processing unit such that the transmitter can determine if the wake-up command needs to be generated (lines 14-15 of column 8).**

Kim does not mention about two power sources. Leman et al mentions the power sources (66 and 72). 66 is used to provide power to all of the components of the

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computer, while 72 provides power to 74. One ordinary skill would be motivated to use two separate power sources for powering processor and the connector as it provides continuous operation of remote connector while computer performs power saving operation (lines 15-20 of column 4).

For claims 22 and 24, Kim et al do not explicitly mention about antenna, USB and media display command. Examiner takes an official notice that these components are well known in the art. One ordinary skill in the art would be motivated to have such components within the system for their associated advantage that is also well known in the art.

Response to Arguments

Applicant's arguments filed on 12/4/07 with respect to claims 1-6, 8-9 have been fully considered but they are not persuasive. Applicant's arguments with respect to claims 10-22, 24 are moot in view of new grounds of rejections.

Applicant argues that examiner's characterization ignores the claim term "peripheral" and the claim phrase "capable of receiving a peripheral component". Applicant argues that 380, 345, 385, 350 are internal to 300 and not peripheral.

Examiner disagrees. Examiner did not show 300 as the remote connector. Instead, 380 is the remote connector. All components 345, 385, 350 are located outside, or in

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periphery of 380. 380 is shown as dotted line in Fig 8. The components that are outside of 380 are peripheral components.

Applicant further argues that the cited integral elements (wireless interface/ports to connect 400' and 400") are not similar to a plurality of ports of the remote connector capable of receiving peripheral components for communication with a remote processing unit.

Examiner understands that 382 is a wireless receiver. The panel 380 comprises necessary interfaces to receive wireless signal. A port is an interface. If 380 does not have necessary interfaces, 400' and 400" cannot communicate with 380. Thus, 380 has plural ports, or interfaces, to receive the signal from 400 ' and 400". Claim does not require that peripheral components have to be attached physically with the ports of the remote connector.

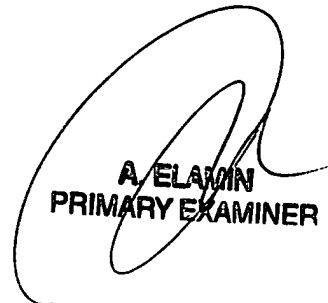
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fahmida Rahman whose telephone number is 571-272-8159. The examiner can normally be reached on Monday through Friday 8:30 - 5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fahmida Rahman
Examiner
Art Unit 2116



A. ELAMIN
PRIMARY EXAMINER